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SEQUENCE LISTING

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<120> RFRP Receptor Antagonist

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<150> PCT/JP2004/003496

<151> 2004-03-16

<150> JP 2003-72709

<151> 2003-03-17

<160> 3

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<211> 430

<212> PRT

<213> Human

<220>

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Ser Ser Tyr Tyr Gln His Thr Ser Pro Val Ala Ala Met Phe Ile Val  
35 40 45  
Ala Tyr Ala Leu Ile Phe Leu Leu Cys Met Val Gly Asn Thr Leu Val  
50 55 60  
Cys Phe Ile Val Leu Lys Asn Arg His Met His Thr Val Thr Asn Met  
65 70 75 80  
Phe Ile Leu Asn Leu Ala Val Ser Asp Leu Leu Val Gly Ile Phe Cys  
85 90 95  
Met Pro Thr Thr Leu Val Asp Asn Leu Ile Thr Gly Trp Pro Phe Asp  
100 105 110  
Asn Ala Thr Cys Lys Met Ser Gly Leu Val Gln Gly Met Ser Val Ser  
115 120 125  
Ala Ser Val Phe Thr Leu Val Ala Ile Ala Val Glu Arg Phe Arg Cys  
130 135 140  
Ile Val His Pro Phe Arg Glu Lys Leu Thr Leu Arg Lys Ala Leu Val  
145 150 155 160  
Thr Ile Ala Val Ile Trp Ala Leu Ala Leu Leu Ile Met Cys Pro Ser  
165 170 175  
Ala Val Thr Leu Thr Val Thr Arg Glu Glu His His Phe Met Val Asp  
180 185 190

Ala Arg Asn Arg Ser Tyr Pro Leu Tyr Ser Cys Trp Glu Ala Trp Pro  
 195 200 205  
 Glu Lys Gly Met Arg Arg Val Tyr Thr Thr Val Leu Phe Ser His Ile  
 210 215 220  
 Tyr Leu Ala Pro Leu Ala Leu Ile Val Val Met Tyr Ala Arg Ile Ala  
 225 230 235 240  
 Arg Lys Leu Cys Gln Ala Pro Gly Pro Ala Pro Gly Gly Glu Glu Ala  
 245 250 255  
 Ala Asp Pro Arg Ala Ser Arg Arg Ala Arg Val Val His Met Leu  
 260 265 270  
 Val Met Val Ala Leu Phe Phe Thr Leu Ser Trp Leu Pro Leu Trp Ala  
 275 280 285  
 Leu Leu Leu Ile Asp Tyr Gly Gln Leu Ser Ala Pro Gln Leu His  
 290 295 300  
 Leu Val Thr Val Tyr Ala Phe Pro Phe Ala His Trp Leu Ala Phe Phe  
 305 310 315 320  
 Asn Ser Ser Ala Asn Pro Ile Ile Tyr Gly Tyr Phe Asn Glu Asn Phe  
 325 330 335  
 Arg Arg Gly Phe Gln Ala Ala Phe Arg Ala Arg Leu Cys Pro Arg Pro  
 340 345 350  
 Ser Gly Ser His Lys Glu Ala Tyr Ser Glu Arg Pro Gly Gly Leu Leu  
 355 360 365  
 His Arg Arg Val Phe Val Val Val Arg Pro Ser Asp Ser Gly Leu Pro  
 370 375 380  
 Ser Glu Ser Gly Pro Ser Ser Gly Ala Pro Arg Pro Gly Arg Leu Pro  
 385 390 395 400  
 Leu Arg Asn Gly Arg Val Ala His His Gly Leu Pro Arg Glu Gly Pro  
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<211> 432

<212> PRT  
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<400> 2

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 Gln Asn Gly Ser Asp Val Glu Thr Ser Met Ala Thr Ser Leu Thr Phe  
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 Ser Ser Tyr Tyr Gln His Ser Ser Pro Val Ala Ala Met Phe Ile Ala  
 35 40 45  
 Ala Tyr Val Leu Ile Phe Leu Leu Cys Met Val Gly Asn Thr Leu Val  
 50 55 60  
 Cys Phe Ile Val Leu Lys Asn Arg His Met Arg Thr Val Thr Asn Met  
 65 70 75 80  
 Phe Ile Leu Asn Leu Ala Val Ser Asp Leu Leu Val Gly Ile Phe Cys  
 85 90 95  
 Met Pro Thr Thr Leu Val Asp Asn Leu Ile Thr Gly Trp Pro Phe Asp  
 100 105 110  
 Asn Ala Thr Cys Lys Met Ser Gly Leu Val Gln Gly Met Ser Val Ser  
 115 120 125  
 Ala Ser Val Phe Thr Leu Val Ala Ile Ala Val Glu Arg Phe Arg Cys  
 130 135 140

Ile Val His Pro Phe Arg Glu Lys Leu Thr Leu Arg Lys Ala Leu Phe  
 145 150 155 160  
 Thr Ile Ala Val Ile Trp Ala Leu Ala Leu Leu Ile Met Cys Pro Ser  
 165 170 175  
 Ala Val Thr Leu Thr Val Thr Arg Glu Glu His His Phe Met Leu Asp  
 180 185 190  
 Ala Arg Asn Arg Ser Tyr Pro Leu Tyr Ser Cys Trp Glu Ala Trp Pro  
 195 200 205  
 Glu Lys Gly Met Arg Lys Val Tyr Thr Ala Val Leu Phe Ala His Ile  
 210 215 220  
 Tyr Leu Val Pro Leu Ala Leu Ile Val Val Met Tyr Val Arg Ile Ala  
 225 230 235 240  
 Arg Lys Leu Cys Gln Ala Pro Gly Pro Ala Arg Asp Thr Glu Glu Ala  
 245 250 255  
 Val Ala Glu Gly Arg Thr Ser Arg Arg Arg Ala Arg Val Val His  
 260 265 270  
 Met Leu Val Met Val Ala Leu Phe Phe Thr Leu Ser Trp Leu Pro Leu  
 275 280 285  
 Trp Val Leu Leu Leu Leu Ile Asp Tyr Gly Glu Leu Ser Glu Leu Gln  
 290 295 300  
 Leu His Leu Leu Ser Val Tyr Ala Phe Pro Leu Ala His Trp Leu Ala  
 305 310 315 320  
 Phe Phe His Ser Ser Ala Asn Pro Ile Ile Tyr Gly Tyr Phe Asn Glu  
 325 330 335  
 Asn Phe Arg Arg Gly Phe Gln Ala Ala Phe Arg Ala Gln Leu Cys Trp  
 340 345 350  
 Pro Pro Trp Ala Ala His Lys Gln Ala Tyr Ser Glu Arg Pro Asn Arg  
 355 360 365  
 Leu Leu Arg Arg Arg Val Val Val Asp Val Gln Pro Ser Asp Ser Gly  
 370 375 380  
 Leu Pro Ser Glu Ser Gly Pro Ser Ser Gly Val Pro Gly Pro Gly Arg  
 385 390 395 400  
 Leu Pro Leu Arg Asn Gly Arg Val Ala His Gln Asp Gly Pro Gly Glu  
 405 410 415  
 Gly Pro Gly Cys Asn His Met Pro Leu Thr Ile Pro Ala Trp Asn Ile  
 420 425 430

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<211> 180

<212> PRT

<213> Human

<400> 3

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 Ser Ser Leu Leu Thr Ser Asn Ile Phe Cys Ala Asp Glu Leu Val Met  
 20 25 30  
 Ser Asn Leu His Ser Lys Glu Asn Tyr Asp Lys Tyr Ser Glu Pro Arg  
 35 40 45  
 Gly Tyr Pro Lys Gly Glu Arg Ser Leu Asn Phe Glu Glu Leu Lys Asp  
 50 55 60  
 Trp Gly Pro Lys Asn Val Ile Lys Met Ser Thr Pro Ala Val Asn Lys  
 65 70 75 80  
 Met Pro His Ser Phe Ala Asn Leu Pro Leu Arg Phe Gly Arg Asn Val  
 85 90 95

Gln Glu Glu Arg Ser Ala Gly Ala Thr Ala Asn Leu Pro Leu Arg Ser  
100 105 110  
Gly Arg Asn Met Glu Val Ser Leu Val Arg Arg Val Pro Asn Leu Pro  
115 120 125  
Gln Arg Phe Gly Arg Thr Thr Ala Lys Ser Val Cys Arg Met Leu  
130 135 140  
Ser Asp Leu Cys Gln Gly Ser Met His Ser Pro Cys Ala Asn Asp Leu  
145 150 155 160  
Phe Tyr Ser Met Thr Cys Gln His Gln Glu Ile Gln Asn Pro Asp Gln  
165 170 175  
Lys Gln Ser Arg  
180